

1. (previously presented) An acetabular reamer for cutting a required cut shape, comprising a cutting shell having a series of cutting teeth thereon, wherein substantially all the teeth have a matched *arc* cutting edge of substantial length connected to the shell by adjacent rise portions, *the matched arc cutting edge having a cutting profile which substantially matches a profile of the overall shape to be cut*, thereby reducing a number of teeth required to cut the shape.

2. (original) The reamer of claim 1 wherein a generally circular hole precedes the cutting edges as the reamer is rotated for cutting.

3. (original) The reamer of claim 1, wherein the series of cutting teeth are arranged uniformly and spaced apart on the cutting shell.

4. (original) The reamer of claim 1, wherein the cutting teeth are arranged in a spiral arrangement on the cutting shell.

5. (currently amended) The reamer of claim 1, wherein the cutting shell is a portion of a sphere in which the length of the cutting edges are selected so as to completely cut the shape, thereby enabling the use of fewer ~~potentially using less~~ teeth than permissible with a cutting shell that has a more complete hemispherical shape.

6. (original) The reamer of claim 5, wherein the cutting shell is a hemisphere or portion thereof.

7. (original) The reamer of claim 2, wherein the series of cutting teeth are arranged uniformly and spaced apart on the cutting shell.

8. (original) The reamer of claim 2, wherein the cutting teeth are arranged in a spiral arrangement on the cutting shell.

9. (original) The reamer of claim 3, wherein the cutting teeth are arranged in a spiral arrangement on the cutting shell.

10. (currently amended) The reamer of claim 2, wherein the cutting shell is a portion of a sphere in which the length of the cutting edges are selected so as to completely cut the shape, thereby enabling the use of fewer ~~potentially using less~~ teeth than permissible with a cutting shell that has a more complete hemispherical shape.

11. (currently amended) The reamer of claim 3, wherein the cutting shell is a portion of a sphere in which the length of the cutting edges are selected so as to completely cut the shape, thereby enabling the use of fewer ~~potentially using less~~ teeth than permissible with a cutting shell that has a more complete hemispherical shape.

12. (currently amended) The reamer of claim 4, wherein the cutting shell is a portion of a sphere in which the length of the cutting edges are selected so as to completely cut the shape, thereby enabling the use of fewer ~~potentially using less~~ teeth than permissible with a cutting shell that has a more complete hemispherical shape.